

Jian LIU

College of Resource Environment and Tourism, Capital Normal University

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EDUCATION

- 09/2019 - Present **Master of Human Geography**
(Expected in 06/2022) *College of Resource Environment and Tourism, Capital Normal University (Beijing, China)*
 Major courses: Research Methods of Modern Geographic Science, Regional Sustainable Development, Regional Economics, Modern Geographical Science Progress.
- 09/2015 - 07/2019 **Bachelor of Human Geography and Urban Planning**
 College of Geography and Environmental Science, Northwest Normal University (Lanzhou, China)
 Major courses: Human Geography, Urban Geography, Geographic Information System, Economic Geography, Principles of Urban Planning.

RESEARCH INTERESTS

- Travel behaviors and activity space
- Human mobility & urban dynamics
- Geographic big data analytics and mining

PUBLICATIONS

1. Liu H, **Liu J***, Li M, Gou P, Cheng Y. Assessing the evolution of PM_{2.5} and related health impacts resulting from air quality policies in China. *Environmental Impact Assessment Review*. 2022; 93:106727. (Corresponding author)
2. **Liu J**, Meng B, Wang J, Chen, S, Tian B, Zhi G. Exploring the Spatiotemporal Patterns of Residents' Daily Activities Using Text-Based Social Media Data: A Case Study of Beijing, China. *ISPRS International Journal of Geo-Information*. 2021; 10(6):389.
3. **Liu J**, Meng B, Chen S, Chen Z, Zhan D. Study on the Relationship between Dining Activities of Beijing Residents and Urban Space based on Multi-sources Big Data. *Human Geography*. 2021; 36(2):63-72+183. (in Chinese)
4. Wang B, Meng B, Wang J, Chen S, **Liu J**. Perceiving residents' festival activities based on social media data: a case study in Beijing, China. *ISPRS International Journal of Geo-Information*. 2021; 10(7):474.
5. Zhi G, Meng B, Wang J, Chen S, Tian B, Ji H, Yang T, Wang B, **Liu J**. Spatial Analysis of

- Urban Residential Sensitivity to Heatwave Events: Case Studies in Five Megacities in China. *Remote Sensing*. 2021; 13(20):4086.
6. Meng B, **Liu J**. The Economy of Beijing. In *Beijing Social Science Yearbook 2020*; Beijing Federation of Social Sciences; Beijing Press: Beijing, China, 2021; pp. 451-460. (in Chinese)
 7. Qiu H, Meng B, **Liu J**. Polycentricity and the Jobs-housing Relationship. In *Urban Spatial Restructuring and Transition of Jobs-housing Relationship: Beijing's Observation and International Comparison*; Yang M, Wu Y, Qiu H, Wang J, Meng B; China Architecture & Building Press: Beijing, China, 2020. (in Chinese)
 8. **Liu J**, Meng B, Li R, Wang J, Zhu H, Li Y. Analyzing the urban network structure of Beijing from the perspective of traffic flow: A comparison of traffic supply vs. demand network. (Under review)
 9. **Liu J**, Meng B, Yang M, Peng X, Zhan D, Zhi G. Quantifying spatial disparities and influencing factors of home, work, and activity space separation in Beijing. (Under review)

RESEARCH PROJECTS

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|-------------------|--|
| 09/2019 - Present | <p>The National Key Research and Development Program of China</p> <p><i>Project name:</i> Data Support and Application Services for Typical Urban Event Discovery and Early Warning. (1.2 M RMB)</p> <p><i>Contribution:</i> Data processing, Spatial analysis, Report writing.</p> |
| 09/2019 - Present | <p>National Natural Science Foundation of China Project</p> <p><i>Project name:</i> Jobs-housing Separation Patterns, Measurement, Early Warning and Planning Response in the Context of Functional Reorganization. (600, 000 RMB)</p> <p><i>Contribution:</i> Spatial analysis, Visualization, Report writing.</p> |
| 09/2019 - 12/2020 | <p>National Natural Science Foundation of China Project</p> <p><i>Project name:</i> Study on the Spatial matching measurement and patterns of urban elements. (600,000 RMB)</p> <p><i>Contribution:</i> Data processing, Spatial analysis, Visualization and Report writing.</p> |
| 06/2020 - Present | <p>Scientific Research Project of Beijing Union University</p> <p><i>Project name:</i> Exploring the Spatial Structure of Urban Elements Flow in Beijing Based on Multi-sources Big Data. (300,000 RMB)</p> <p><i>Contribution:</i> Data processing, Spatial analysis and Report writing.</p> |

12/2020 – 07/2021

WeSpace Academic Support Plan in 2020: “Tsinghua-Tencent” Emerging Technologies × Future Urban Space project

Project name: *The impact of emerging technologies on future urban space under the trend of urbanization*

Contribution: *Proposal and Report writing.*

CONFERENCES

Presentations

1. “Study on the Relationship between Dining Activities of Beijing Residents and Urban Space based on Multi-sources Big Data,” *The 15th Conference on Spatiotemporal Behavior and Planning*. Shenzheng, China. December 13-15, 2019.
2. “Study on the Relationship between Residents' Daily Activities and Urban Spatial Structure Based on Social Media Data,” *The Symposium of Research Frontiers on Urban Space and Resident Behavior in Beijing*, Beijing, China. December 25, 2019.
3. “Urban Residents’ Activity Diversity and Its Influential Factors in Beijing,” *The 16th Conference on Spatiotemporal Behavior and Planning*. XiaMen, China. December 12, 2020.
4. “The Paradigm of Spatiotemporal Behavior Research in the Big Data Era,” *The Geographical Society of China Annual Spring Conference 2021*, Xi’an, China. May 28-30, 2021.
5. “The Characteristics and Influencing Factors of Spatial Separation of “Live-Work-Activity” in Beijing,” *The 11th Forum on Spatially Integrated Humanities and Social Science*, Hangzhou, China. July 7-10, 2021.
6. “Mining the Residents’ Daily Activity Patterns of Beijing from the Perspective of Behavioral Sensing,” *2021 China Behavioral Geography Annual Conference and the 17th Conference on Spatiotemporal Behavior and Planning*, Wuhan, China, November 20-21, 2021

Participated conferences

1. 27/10/2019: *Workshop on Complex Systems and Social Computing*. Beijing, China.
2. 31/10/2019 - 3/11/2019: *2019 China Conference on Geography*. Beijing, China.
3. 8/05/2020 - 9/05/2020: *2020 ACM SIGSPATIAL CHINA Conference of Spatial Data Intelligence*. (Online)
4. 10/05/2020: *The 16th China Networks Science Forum in 2020*. (Online)
5. 22/08/2020 - 23/08/2020: *China National Conference on Big Data & Social Computing, BDSC 2020*. (Online)

SKILLS

Software Skills:

Spatial Analysis: ArcGIS (Pro), QGIS, GeoDa, CrimeStat, SatScan, Geodetector.

Statistical Analysis: Tableau, SPSS, Origin.

Network Analysis: Gephi, Ucinet.

Others: Adobe Photoshop, Illustrator, Indesign & Premiere, AutoCAD, SketchUp.

Programming Language: Python, R.

Other Skills: Fieldwork, Questionnaire Survey, In-depth Interview.